**GEOMETRY BELLWORK**

**BELLWORK FOR WEEK ENDING 10/18/19**

**MONDAY 10/14/19**

**EQ:**  How do we prove lines parallel using the converse of the previous rules?

**BW:** Using your notes right the corresponding angles postulate and the alternate interior angles theorem. Then right the converse of both of those.

**TUESDAY 10/15/19**

**EQ:**  Can I identify all of the different angle pairs and know how they are related given a transversal and two parallel lines?

**BW:**  Given the corresponding angles postulate (If two parallel lines are cut by a transversal, then corresponding angles are congruent) identify the hypothesis and conclusion. Then write the converse of the postulate and then write the statement as a biconditional.

**WEDNESDAY 10/16/19**

**EQ:**  Can I use the given postulates and theorems to solve problems involving parallel lines?

**BW:**  Sketch two parallel lines intersected by a transversal. Label the created angles 1-8. List all pairs of corresponding angles, alternate interior angles, same side interior angles, and alternate exterior angles.

**THURSDAY 10/16/19**

**EQ:**  Same as yesterday

**BW:**  Same as yesterday (Yes, I want you to draw the same diagram AGAIN and write out the same angle pairs AGAIN. Your bellwork should have 2 of these diagrams on it, and 2 of the angle pair listings.)

**FRIDAY 10/18/19**

**EQ:**  Can I use the converse of the parallel line theorems to solve problems proving lines parallel?

**BW:**  Write down both Corresponding Angles Postulate and its Converse.

**BELLWORK FOR WEEK ENDING 10/25/19**

**MONDAY 10/21/19**

**EQ:**  How can I use the 3 new theorems to prove lines parallel or perpendicular and, therefore, determine the angles created by transversals?

**BW:**  QuickWrite: Spend the first 8 minutes of class writing down everything you know about parallel and perpendicular lines. Include anything you remember from Algebra. Also write down any questions you may have regarding parallel and perpendicular lines.

**TUESDAY 10/22/19**

**EQ:**  Can I use the theorems we proved yesterday to solve the problems on the worksheet?

**BW:**  If line a is parallel to line b, and line b is perpendicular to line c, and line c is parallel to line d, and line d is perpendicular to line e, what is the relationship between line a and line e?

**WEDNESDAY 10/23/19**

**EQ:**  What do triangles have to do with parallel lines?

**BW:**  How many degrees do the internal angles of a triangle have? How do you know?

**THURSDAY 10/24/19**

**EQ:**  How do I use the triangle angle sum theorem and exterior angle theorem to solve problems related to triangle angles?

**BW:**  Review your notes from yesterday (if you weren’t here, copy someone’s), and then write a summary (you should have done this yesterday). Copy this summary into your bellwork.

**FRIDAY 10/25/19**

**EQ:**  Can I use the equations of lines to determine if they are parallel or perpendicular?

**BW:**  QuickWrite: Over the next seven minutes, please write down everything you remember from Algebra 1 about the equations of parallel and perpendicular lines. Include what you definitely know, what you think you know, and any questions that you may have.

**BELLWORK FOR WEEK ENDING 11/1/19**

**MONDAY 10/28/19**

**EQ:**  Can I use the equations of lines to determine if they are parallel or perpendicular?

**BW:**  Using your notes from last week, copy down the generic forms of Slope Intercept, Point Slope, and Standard forms of Equations. Also state how each can be used to graph a line (what two points does it have you find for a graph?)

**TUESDAY 10/29/19**

**EQ:**  Can I use my knowledge from yesterday to solve the problems on the worksheet?

**BW:**  Given the points (4,5) and (-5,-5), find both the point slope and slope intercept forms of the line. If possible, then put it into standard form.

**BELLWORK FOR WEEK ENDING IN 11/15/19**

**TUESDAY 11/12/19**

**EQ:**  Can I understand the correct answers on the test?

**BW:**  How much did you use your notes on the Unit 2 Test? If you used them, how helpful were they? If not, why not?

**FRIDAY 11/15/19**

**EQ:**  How can congruency statements help me understand the nature of congruency?

**BW:**  Ask Mr. Renard a question.

**BELLWORK FOR WEEK ENDING 11/23/19**

**MONDAY 11/18/19**

**EQ:**  Same as Friday

**BW:** If triangle ABC is congruent to triangle XYZ…. Write out the six congruency statements that follow.

**TUESDAY 11/19/19**

**EQ:**  Can I use SSS and SAS in order to determine whether two triangles are congruent.

**BW:**  Copy down all of the new vocab, theorems, and postulates into your notes. When done, raise your hand and I will sign off on your bellwork. No signature no credit.

**THURSDAY 11/21/19**

**EQ:**  Can I uses ASA and AAS to determine whether two triangles are congruent.

**BW:**  Review your notes on congruency and the first two triangle congruency postulates…. Then write a summary. Copy this summary into your bellwork. Given that you are reviewing your notes, I expect this to be done in silence.

**FRIDAY 11/22/19**

**EQ:**  Can I finish all of the work I have been assigned this week?

**BW:**  If we know that two triangles have ASA congruency, what do we know about their other two sides and the other angle?

**BELLWORK FOR WEEK ENDING 12/6/19**

**MONDAY 12/2/19**

**EQ:**  How can I use the properties of congruency to determine and apply the properties of isosceles and equilateral triangles?

**BW:** What do you plan on doing to improve your grade between now and the end of the month?

**TUESDAY 12/3/19**

**EQ:**  How can I use the properties of isosceles and equilateral triangles to solve for missing angles and sides?

**BW:**  Write down the Corollary of the Converse of the Isosceles Triangle Theorem from yesterday’s notes.

**WEDNESDAY 12/4/19**

**EQ:**  How do I use the properties of congruence to find missing sides in overlapping triangles?

**BW:**  How much of the worksheet did you get done yesterday?

\

**FRIDAY 12/6/19**

**EQ:**  How well do I know the Chapter 4 material?

**BW:**  What happened yesterday? Based on what you know of me (Mr. Renard) how do you think I reacted to the report from the substitute teacher who was standing in for me on a day when I couldn’t be here?

**BELLWORK FOR WEEK ENDING 1/10/20**

**MONDAY 1/6/20**

**EQ:**  How do I find the length of the midsegment of a triangle?

**BW:**  Were you happy with your grade in Geometry last semester? What, if any changes do you plan on making this semester if you want a higher grade?

**TUESDAY 1/7/20**

**EQ:**  How do I use Perpendicular and Angle Bisectors to solve real world problems?

**BW:**  If a two sides of a triangle measure 4cm and 8cm, respectively, what are the possible lengths of the third side?

**WEDNESDAY 1/8/20**

**EQ:**  Can I properly use the perpendicular and angle bisector theorems (and their converses) to solve the assigned problems?

**BW:**  From your notes yesterday I want you to write three things: 1. The Perpendicular Bisector Theorem, 2. The Converse of the Angle Bisector Theorem, and 3. Your Summary of your notes from yesterday.

**THURSDAY 1/9/20**

**EQ:** How can I use the point of concurrency of the perpendicular bisectors and angle bisectors in real world situations.

**BW:**  From your notes Tuesday, write the Converse of the Perpendicular Bisector Theorem and the Angle Bisector Theorem.

**FRIDAY 1/10/20**

**EQ:**  Can I turn in all the work assigned this week?

**BW:**  Copy the Concurrency of Angle Bisector Theorem and the Concurrency of Perpendicular Bisector Theorems into your bellwork.

**BELLWORK FOR WEEK ENDING 1/17/20**

**MONDAY 1/13/20**

**EQ:** How do we use altitudes and medians?

**BW:**  What are the circumcenters and incenters of a triangle?

**TUESDAY 1/14/20**

**EQ:**  Can I solve problems using the properties of altitudes and medians?

**BW:**  Yesterday, in your notes, you copied a chart describing the different segments of a triangle and their points concurrency. Copy that chart into your bellwork.

**WEDNESDAY 1/15/20**

**EQ:**  How do unequal angles and sides in a triangle affect each other? Specifically, how do they affect the lengths of a side affect the opposite angle, and vice versa?

**BW:**  Sketch a triangle with three unequal sides. Then label the sides in increasing order: a, b, and c. Then, label the angles in increasing order: A, B, and C.

**THURSDAY 1/16/20**

**EQ:**  Can I correctly answer all of the answers on the worksheet and the subsequent chapter review.

**BW:**  Quickwrite:  **USING COMPLETE SENTENCES**  explain how the lengths of a triangles side relate to the relative measure of the angles opposite those sides.

**BELLWORK FOR WEEK ENDING 1/31/20**

**MONDAY 1/27/20**

**EQ:**  How are the number of sides of a polygon related to the sum of its interior angles?

**BW:**  What is the sum of the measure of the interior angles of a triangle?

What is the sum of the measure of the interior angles of a square?

What is the sum of the measure of the interior angles of a pentagon?

What pattern do you see, and can you think of why this happens?

**TUESDAY 1/28/20**

**EQ:**  What are the basic properties of a parallelogram?

**BW:**  For the following n-gons find the sum of the interior angles, the measure of one interior angle, and the measure of one exterior angle.

1. Heptagon
2. Nonagon
3. 15-gon

**WEDNESDAY 1/29/20**

**EQ:**  Can I use the properties of parallelograms to solve the assigned problems?

**BW:**  Write out the four basic properties of a parallelogram.

**THURSDAY 1/30/20**

**EQ:**  How can I tell if a quadrilateral is a parallelogram?

**BW:**  QuickWrite: For the first five minutes of class, tell me how you think you could tell if a quadrilateral is a parallelogram. Use the four basic properties and the converse nature of theorems.

**FRIDAY 1/31/20**

**EQ:**  Can I make sure I have turned in all of my work from this week?

**BW:**  Ask Mr. Renard a question.

**BELLWORK FOR WEEK ENDING 2/7/20**

**MONDAY 2/3/20**

**EQ:**  What are the properties of rhombuses, rectangles, and squares?

**BW:**  QUICKWRITE: Write down everything you know or think you know about squares, rectangles, and rhombuses?

**TUESDAY 2/4/20**

**EQ:**  Can I use the properties from yesterday to solve problems today?

**BW:**  Yesterday you took notes and I asked you to summarize them, copy that summary into your bellwork for today.

**WEDNESDAY 2/5/20**

**EQ:**  What about Trapezoids and Kites?

**BW:**  Write down any questions you had about yesterday’s homework?

**THURSDAY 2/6/20**

**EQ:**  How can we use coordinate geometry to solve problems involving special quadrilaterals?

**BW:**  What makes a trapezoid a trapezoid? What is the difference between a trapezoid and an isosceles trapezoid? What, if any, special properties do the diagonals of a trapezoid possess?

**FRIDAY 2/7/20**

**EQ:**  How can we use coordinate geometry to identify different polygons?

**BW:**  If you were given 4 points on a Cartesian plane, how would you determine whether it was just a quadrilateral or a special quadrilateral (Trapezoid, Isosceles Trapezoid, Kite, Parallelogram, Rhombus, Rectangle, or Square)?

**BELLWORK FOR WEEK ENDING 2/14/20**

**MONDAY 2/10/20**

**EQ:**  How ready can I get for the Chapter 6 Test?

**BW:**  How did you do on the previous test? What will you do differently this time? What help will you ask for that you did not ask for last time?

**BELLWORK FOR WEEK ENDING 2/21/20**

**WEDNESDAY 2/19/20**

**EQ:**  What does similarity mean, and how is it different from congruence?

**BW:**  How do you think you did on the test? What could you have done differently to be better prepared?

**THURSDAY 2/20/20**

**EQ:**  Same as yesterday.

**BW:**  What is the Cross Product Property of Proportions.

**FRIDAY 2/21/20**

**EQ:**  How do I use extended proportions to determine similarity?

**BW:**  What is the difference between two figures being congruent and two figures being similar? Give an example of each.

**BELLWORK FOR WEEK ENDING 2/28/20**

**TUESDAY 2/25/20**

**EQ:**  How do I prove triangles similar?

**BW:**  One of the Triangle Similarity Postulates we will learn about is Angle Angle Similarity. Take a minute and think about why Angle Angle Similarity can be a postulate, but Angle Angle Congruence was not. Write down why you think this is.

**WEDNESDAY 2/26/20**

**EQ:**  How can I use the postulate and theorem I learned yesterday?

**BW:**  Write down the Angle Angle Similarity Postulate, Side Angle Side Similarity Theorem, and Side Side Side Similarity Theorem (in their entirety) in your bellwork.

**THURSDAY 2/27/20**

**EQ:**  How can proportions help me solve problems in one triangle?

**BW:**  Write down what you remember about how the angles of an isosceles triangle relate to the lengths of the sides. Also write down what you remember about how the sides of an equilateral triangle are related to the angles in an equilateral triangle.

**FRIDAY 2/28/20**

**EQ:**  Can I finish my work and get ready for the Chapter 7 Test?

**BW:**  Write down the Corollary to the Side Splitter Theorem. Then get working on completing all of the assignments from this week. Once those are done and turned in, come to me for the Chapter Review.

**BELLWORK FOR WEEK ENDING 3/6/20**

**EQ:**  Can I be ready for the Chapter 7 Test?

**BW:**  Write down the grade you got on the last test. Then write down what you did to earn that grade and what, if anything, you are going to do differently this time around.